## From the INTERNATIONAL SEARCHING AUTHORITY



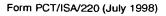
<u> </u>	1 0 1
To: COHEN, PONTANI, LIEBERMAN & PAVANE	NOTIFICATION OF TRANSMITTAL OF
Attn Chena Kent H	THE INTERNATIONAL SEARCH REPORT
551 Fifth Avenue, Suite 121 COHEN, PONTANI, LIE	ERMAN & PANAME OR THE DEGLARATION
New York, New York 101/6	
UNITED STATES OF AMERICA	(PCT Rule 44.1)
OCT 2	29 HOV 2005
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RECE	VED
	Date of mailing (day/month/year)
	(day/month/year) 29/09/2003
Applicant's or agent's file reference	
4830-30PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/US 03/19676	(day/month/year) 20/06/2003
<u></u>	20/00/2003
Applicant	
GENZYME CORPORATION	
GENZIFIE CONTONATION	
r	
1. X The applicant is hereby notified that the International Search	n Report has been established and is transmitted herewith.
Filing of amendments and statement under Article 19:	
The applicant is entitled, if he so wishes, to amend the claim	s of the International Application (see Rule 46):
When? The time limit for filing such amendments is norma	ally 2 months from the date of transmittal of the
International Search Report; however, for more de	tails, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO	
34, chemin des Colombettes	
1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35	
For more detailed instructions, see the notes on the accordance	mpanying sneet.
2. The applicant is hereby notified that no International Search	Report will be established and that the declaration under
Article 17(2)(a) to that effect is transmitted herewith.	
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has been applicant's request to forward the texts of both the prof	n transmitted to the International Bureau together with the lest and the decision thereon to the designated Offices.
applicant o request to lower a the texts of bour the pro-	and the decision thereon to the designated Chicos.
no decision has been made yet on the protest; the app	olicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
4. Further action(s).	
Shortly after 18 months from the priority date, the international ap	
If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided	
completion of the technical preparations for international publica	ation.
Within 19 months from the priority date, a demand for internation	
wishes to postpone the entry into the national phase until 30 mo	onths from the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perfor	
before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	
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Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Eva Bohácová





(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 4830-30PCT	FOR FURTHER see Notification (Form PCT/ISA	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 03/19676	20/06/2003	21/06/2002
Applicant		
GENZYME CORPORATION		
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Searching Auansmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consists  It is also accompanied by	of a total of sheets.  a copy of each prior art document cited in the	s report.
Basis of the report		
	international search was carried out on the b less otherwise indicated under this item.	asis of the international application in the
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this
was carried out on the basis of the		international application, the international search
	ernational application in computer readable fo	rm.
furnished subsequently to	o this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
	bsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the
the statement that the inf furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were for	and unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,		
X the text is approved as s	ubmitted by the applicant.	
the text has been establi	shed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as s	ubmitted by the applicant.	
the text has been establi within one month from th	shed, according to Rule 38.2(b), by this Authore date of mailing of this international search re	rity as it appears in Box III. The applicant may, eport, submit comments to this Authority.
The figure of the <b>drawings</b> to be pub.		·
as suggested by the app	icant.	X None of the figures.
because the applicant fai	led to suggest a figure.	
because this figure better	characterizes the invention.	

nal Application No PC 1/US 03/19676

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61L27/44 A61L27/48
A61L31/12 A61L31/16

A61L27/54

A61L29/12

A61

/16

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, EMBASE, BIOSIS, COMPENDEX

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Special categories of cited documents:     A* document defining the general state of the art which is not considered to be of particular relevance.	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*E* earlier document but published on or after the international filing date  *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  *O* document referring to an oral disclosure, use, exhibition or other means  *P* document published prior to the international filing date but later than the priority date claimed	<ul> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  12 September 2003	Date of mailing of the international search report  29/09/2003
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer Pilling, S

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been his filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
  claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

nal Application No PC17US 03/19676

		PC170S 03/196/6
	ation) DOCUMENTS CONSIDERED TO ELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to claim No.
X	DATABASE WPI Section Ch, Week 199839 Derwent Publications Ltd., London, GB; Class A26, AN 1998-454945 XP002254401 & RU 2 103 013 C (ST PETERSBURG TRAUMATOLOGY ORTHOPAEDICS), 27 January 1998 (1998-01-27) abstract	1-21
<b>X</b>	EP 0 224 981 A (PACO RES CORP) 10 June 1987 (1987-06-10) abstract; examples 1-10	1-8

in on patent family members

PC17US 03/19676

Patent document cited in search report	-	i ation date		Patent family member(s)		Publication date
EP 0923953	Α	23-06-1999	US	6099562		08-08-2000
			EP	0923953	<b>A</b> 2	23-06-1999
			JР	11199471	Α	27-07-1999
			บร	6284305	B1	04-09-2001
			US	2002004101	<b>A</b> 1	10-01-2002
WO 0236175	- <b></b> -	10-05-2002	 AU	3239902	Α	15-05-2002
			CA	2427795	A1	10-05-2002
			EP	1330270	A2	30-07-2003
			WO	0236175	<b>A</b> 2	10-05-2002
			US	2003139811	A1	24-07-2003
			US	2002169162	A1	14-11-2002
RU 2103013	С	27-01-1998	RU	2103013	C1	27-01-1998
EP 0224981	A	10-06-1987	AU	561608	B1	14-05-1987
			EP	0224981	<b>A</b> 2	10-06-1987
(			ËS	2001064	A6	16-04-1988
			JP	62108812	Α	20-05-1987